

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058580 A1

(51) International Patent Classification⁷: **B29C 49/06**

(21) International Application Number:
PCT/KR2004/003341

(22) International Filing Date:
17 December 2004 (17.12.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0093910
19 December 2003 (19.12.2003) KR

(71) Applicant and

(72) Inventor: **CHO, Ja Yeon** [KR/KR]; 141-2 Dochang-dong,
Siheung-si, Gyeonggi-do 429-815 (KR).

(74) Agent: **HWANG, Eui In**; 10th Floor, Hankook Tire Bldg.,
647-15 Yeoksam-dong, Gangnam-gu, Seoul 135-723 (KR).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

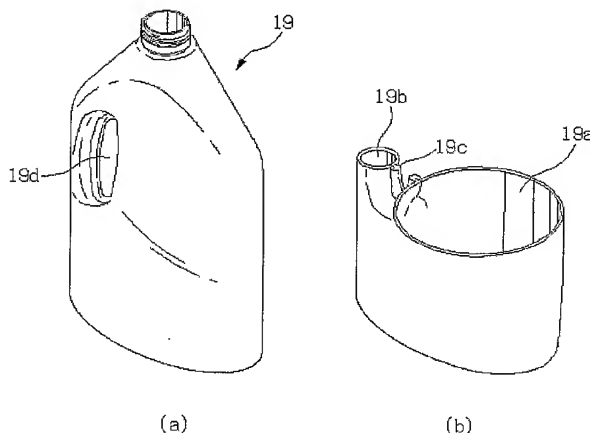
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ARRANGEMENT AND METHOD FOR MANUFACTURING PET BOTTLE WITH HANDLE FORMED AT BODY PART BY INJECTION BLOW MOLDING, AND PET BOTTLE MANUFACTURED BY THEM



(57) Abstract: The present invention relates to arrangement and method for manufacturing a PET bottle having a handle formed on a body by a continuous process by means of an injection blow molding method, and a PET bottle manufactured thereby. The method comprises the steps of performing a first blowing operation to blow compressed air into a preform manufactured by injection molding after mounting the preform to a preform blow mold, performing a second blowing operation to blow compressed air into the first PET container after mounting the first PET container to a blow mold having a handle forming portion, cutting off a compressed portion of the handle section of the second PET container, and bonding a cut-off portion of the handle section of the third PET container remaining after the step c).